

US EPA RECORDS CENTER REGION 5



466244

FIELD OVERSIGHT SUMMARY REPORT
ACS NPL SITE
GRIFFITH, INDIANA

November 8, 1999

BLACK & VEATCH
SPECIAL PROJECTS CORP.

101 North Wacker Drive, Suite 1100, Chicago, Illinois 60606, (312) 346-3775

U.S.EPA
American Chemical Service Inc.

BVSPC Project 46518
BVSPC File C.3
November 19, 1999

Mr. Kevin Adler
Remedial Project Manager
U.S. Environmental Protection Agency
Region V, SR-J6
77 West Jackson Boulevard
Chicago, IL 60604-3590

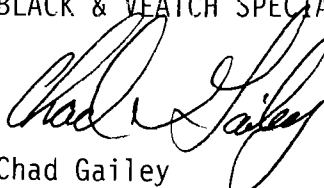
Subject: Field Summary Report

Dear Mr. Adler:

Enclosed is a copy of the quarterly groundwater sampling and Oxygen Reducing Compound (ORC) Study field oversight summary report for your review. Quarterly sampling took place during the week of November 8, 1999, at the American Chemical Services Superfund site in Griffith, Indiana. ORC sampling occurred on October 13 and November 4, 1999. Please call me at 312/683-7857 if you have any questions.

Sincerely,

BLACK & VEATCH SPECIAL PROJECTS CORP.



Chad Gailey
Project Geologist

ctg
Enclosures

cc: S. Mrkvicka, BVSPC w/enclosures

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USEPA/ARCS V
BVSPC Oversight Summary

Reporting Period November 8, 1999 Hours Worked: 52
Site Name/Location: ACS/Griffith, IN BVSPC Project No.: 46518.238
USEPA Work Assignment Manager: Kevin Adler, RPM
Site Manager: Steve Mrkvicka

Personnel Summary Affiliation	No. of Personnel	Responsibility
Lee Orsorz, Montgomery Watson, Addison, IL	1	Respondent's General Contractor
Dawn Dougher, Chad Smith, Alex Ellwood, Rudy Stein, Lonny Boning Montgomery-Watson, Addison, IL	5	Field Sampling Crew (for quarterly groundwater sampling)
Chad Gailey, Black & Veatch Special Projects Corp, (BVSPC)	1	USEPA Oversight Contractor

Summary of field activities:

During the week of November 8, 1999, Montgomery Watson conducted quarterly groundwater sampling at the American Chemical Services (ACS) Site. Two Montgomery Watson field sampling crews collected samples from monitoring wells within the ACS site boundary, the wetland area, the City of Griffith Landfill, and the areas that lie north, south, and east of the ACS facility. BVSPC's one-man crew conducted oversight of the field activities to ensure that proper sampling techniques were conducted. The specified operating procedure (SOP) for low flow groundwater sampling was adhered to by the sampling team. The BVSPC representative was tasked to collect split samples if the sampling technique differed from the SOP. BVSPC oversaw Montgomery Watson's sample paperwork procedures and decontamination set-up and routine.

Montgomery Watson collected 44 groundwater samples, and duplicate samples, matrix spike/matrix spike duplicate (MS/MSD) samples, and field equipment rinsate blanks. The monitoring wells sampled by Montgomery Watson are listed in the field logbook notes, which are attached to this report. Montgomery Watson used the low flow sampling technique and monitored for stability of the following groundwater parameters: pH, specific conductance,

and temperature. Groundwater turbidity was also monitored and samples were collected when turbidity was 10 nephelometric units (NTU's) or less.

Four equipment rinsate blanks were collected by Montgomery Watson to ensure that proper decontamination procedures yielded clean sampling equipment.

BVSPC noted problems with the tubing used to sample the groundwater. Numerous kinks were created installing and extracting the pump during sampling that hindered groundwater flow. Proper low flow sampling procedures were not available upon arriving on site by Montgomery Watson, nor were the proper well logs as needed for reference.

During the week of October 13 and November 4, 1999, Montgomery Watson conducted Oxygen Releasing Compound (ORC) sampling for natural attenuation in the area north of the ACS site. Montgomery Watson's field crew consisted of Rudy Stein and Chad Smith on October 13, and Rudy Stein on November 4, 1999. BVSPC conducted oversight to ensure proper field procedures were followed. The work plan presented by Montgomery Watson was adhered to by all field crew members. The piezometers sampled by Montgomery Watson are listed in the field logbook notes, which are attached to this report.

Signature: Chad Gailey

Date: November 19, 1999

(106)
6:26

Chael Laley 10/13/99

ARRIVED ON SITE, WEATHER
OVERCAST, Lighting, Temp is upper
60's, LIGHT BREEZE.

TODAY ACTIVITIES ORC Sampling
w/ Ruckey Stein + Chael Smith
+ OVERSIGHT ON WATER TREATMENT
EXPANSION

BENTON CONSTRUCTION IS ON SITE
FINISHING WEBBLING ON THE SLUDGE
TANK, PAINTING HAS NOT BEGAN
DO TO WEATHER.

PRESENT ARE THE FOLLOWING:

Jim Benton

Ricky Brinkley

Chris Frazier

JOE COLE

FRED PIKE

LEE BROCK

EEM

MACE

Benton Co.

7:30

Ruckey + Chael Smith ARE PREPPING
FOR ORC Sampling.

08:07

Picture #4, FACING North @
WATER TREATMENT Bldg. of Ruckey Stein +
Chael Smith Filling a Field Blank.

Chael Laley

(107)

Chael Laley 10/13/99

08:25 ARRIVED ON THE NORTH SIDE OF
the Track, LOCATED HERE ARE 4
Wells.

08:30 Picture #5 of Ruckey Stein, FACING
North @ PZ7, Taking Ground
Water Levels. DTW = 7.50

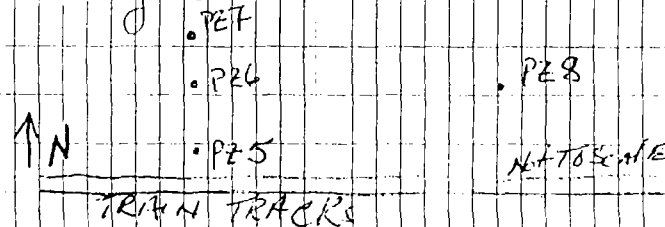
08:40 Started Pumping well @ PZ7

08:44 Chael Smith Checking Draw Down
DTW 7.50 No Draw Down is appropriate.

09:00 Start Sampling @ PZ7

09:01 Picture #6 FACING North @ PZ7
of Ruckey Stein Filling a VCM for
ORC Sampling

LOCATION of ORC wells



09:10 FINISHED Sampling @ PZ7

09:12 Moving to PZ8

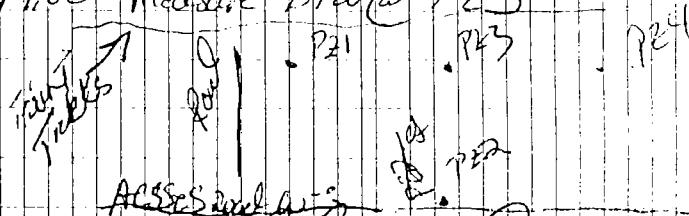
09:20 Picture #7 FACING North west @ PZ8
8.61 DTW Taken by Ruckey Stein.

Chael Laley

- (108) Chad Lacey 10/13/99
- 09:25 STARTED Pumping well @ PZ8
- 09:32 Rudy Stein Checking Draw Down
862 Looks Good No apparent
Draw Down
- 09:45 Start Sampling, Parameter, ~~Ph~~ Temp, etc
Reading, Conc. ARE STABLE
- 09:47 Picture #8 Facing East @ PZ8
of Rudy Ledge a VOA bottle.
- 09:53 Rudy is Decoding Pump while
Chad Smith is taking groundwater
measurement @ PZ8
- 10:05 STARTED Pumping @ PZ5
- 10:08 Start Sampling @ PZ5
- 10:30 Picture #9 Facing South East @
PZ5 of Rudy Stein filling
a VOA bottle
- 10:40 Rudy Start Decoding Pump to mob
to PZ6, Chad Smith is
taking water levels of Surround
wells
- 10:45 Picture #10 Facing North @ PZ6
of Rudy Stein Take groundwater
elevation 70.71
- 10:50 START Pumping @ PZ6

Chad Lacey

- (109) Chad Lacey 10/13/99
- 11:00 THE DO at PZ6 is detected
@ 8.10 ppm the others ARE
- 11:16 Start Sampling @ PZ6
Picture #11 Facing North
- 11:20 @ PZ6 of Rudy Ledge a
VOA bottle
- 11:25 FINISHED Sample, Chad Smith
and Rudy ARE going to measure
A Few wells, then Return to
WATER TREATMENT SL to
DISPOSE of FRESH WATER
- 12:30 Break for Lunch
- 13:05 Return to Site
- 13:20 Setting up PZ1
- 13:43 Start Sampling @ PZ1
- 13:45 Picture #12 Facing North @
PZ1 of Rudy Ledge a VOA
- 13:50 Decoded Pump
- 14:00 Measure DTW @ PZ3



Chad Lacey

(10) Chas. L. Lacey 10/18/57
H.O.S. Perrywell PZ3

4:12 Picture 13 # Facing East @
PZ3 of Chas. Smith
Dispersing Har. ba, for
14:15 Parameters

14:25 Measuring Water Depth @ PZ4
DTW is 14.48

14:35 Start Pumping @ PZ4

15:00 Start Sampling @ PZ4

15:05 Chas. Smith measure water depth
@ PZ2 14:12

15:35 Start Sampling @ PZ2
Has to be clearing up
to be clear by 14

15:37 Picture 14 # Facing East @ PZ2
of Early filling VOA

15:45 Finish Sampling @ PZ2

16:30 Chas. Smith & Rudy Stern are
Picking Samples

16:45 Talk to Jim Barton about
Status, Next 4-5 days they hope
to have the Tank Painted,
Tuesday 11th Footwall be Deep P.
Pierce Co.

Chas. L. Lacey

(11) Chas. L. Lacey 10/17/57

6:20 ARRIVED ON Site. Weather
is Cloudy, 11 cool in the high 30's

6:40 LEE PROB arrive on site.

7:45 Insulating arrived for the
Bcl addition.

8:20 Barton Construction arrived on site.
they are put off by the weather
for painting the tank that is
all READY for painting SAND Blasting
is FINISHED.

Out Side tank Blast & Primed
inside Cleaner is Blast & Primed
Welding is 90% complete
The Outer Ring of inside tank
still needs to be Blast &
Primed.

Ryan Construction is set up
for loadings for Bcl steel and 2"

* Barton Construction is running into
problems with the cold weather
Painting of the tank.

Barton Construction also has to install
the Stainless Steel Piping

120

Chad Taylor 11/04/99

6:45 ARRIVED ON SITE, WEATHER IS
SUNNY AND 40'S NO WINDY.7:00 Rudy Stein + LEE CRUSE ARRIVED
Rudy is Preping FOR ORC Sampling
+ LEE IS GETTING READY FOR
A DAY OF BOTO Raising in Electra
+ Plumbing.* RYAN CONSTRUCTION POURED THE
FLOOR IN THE Bldg EXPANSION
AREA 11/03/99, LOOKS O.K.* WEDNESDAY 10 of NOV. ERECTION
OF THE OIL/WATER Separator IS
SCHEDULED.7:25 Picture #7 FACING WEST IN
FRONT OF THE Bldg. of Rudy Stein
DECONNING HIS EQUIPMENT FOR ORC
Sampling.7:45 Picking Up THE NORTH SIDE OF TRACKS,
P-5-8.I problem with access to the North
SIDE OF TRACKS, THE RAIL ROAD IS
STOCK PILING TIES IN THE ROAD WAY.
SO WE WILL DRIVE UP THE SOUTH SIDE
OF THE TRACKS AND WALK ACROSS.

Chad Taylor

121

Chad Taylor 11/04/99

8:20 Rudy is MEASURING IN/OUT
Depth to WATER AT PZ7
7:488:45 Picture #8 Facing North of
Rudy filling a VOA for ORC
Sampling.8:55 Rudy is DECONNING pump for
Sampling @ PZ6.9:00 OTW 7.72 @ PZ6 into lower
level.

9:15 PZ 7.78 @ PZ6 checking Pump Power

9:30 Start Sampling @ PZ6
Picture #9 Facing North @ PZ6
of Rudy filling a VOA for ORC.9:50 Called in to the office
10:05 Picture #10 Facing East @ PZ8
of Rudy filling a VOA for
ORC Sampling.10:15 Rudy is deconning the pump
an equipment.10:20 Picture #11 Facing South @ PZ5
of Rudy checking Pump Power

10:35 Supply @ PZ5

Chad Taylor

(122) Chuck Soley North

11:00 Mob to WTB To Empty Purple Buckets
AND SET UP FOR THE Next 4 wells -

11:40 Mob to PZ1

12:15 Picture #12 Facing North @ PZ1
of Rully Pulling Fugle Blank

12:40 Take Parameter for Sampling -

13:00 Picture #13 Facing East @ PZ1
of Rully Pulling a VOA for
ORC Sampling -

13:30 Sampling @ PZ3 for ORC
Parameters

13:32 Picture #14 Facing East @ PZ3
of Rully Pulling a VOA.

13:45 Picture #15 Facing SW
@ PZ4 of Rully Setting up
Equipment.

14:00 Sampling PZ4 for ORC
PARAMETERS

14:10 Deconning pump & Equipment for
Sampling PZ2

14:35 Setting up @ PZ2

14:47 Pumping PZ2

15:15 Sampling PZ2

15:40 Returning to the WTB To
Pack and Gear Equipment (Pump, Sinks)

Chuck Soley

(123) Chuck Soley North

7:50 ARRIVED ON SITE, WEATHER IS
A CHARMING Sunny Day Temp in the
60's Light Breezy heavy @ time.

8:05 ARRIVED @ MW 47, Rully
& PAWNS WERE SET UP TAKING
PARAMETER. Labeling BOTTLES
8:10 Rully Checking Draw Down well
is Drawing Down DECREASE
Flow RATE

8:15 Rully Check Draw Down AGAIN
it has equalized out.

8:26 FINAL PARAMETERS @ MW 47
Ph COND Turb DO Temp Tps ORP
5.52 11 510 6.2 16.4 0.07 240
LAST 3 Parameters were within 10%.

8:27 PICTURE 15 FACING N @
MW 47 of PAWNS Pulling Poly
for metals. THESE ARE INDICATOR
PARAMETERS.

SAMPLES ARE BEING STORED ON ICE.
Final Reading for Draw Down

8:30 PAWNS
Picture #16 Facing N @
MW 47 of PAWNS & Rully
Pull out Pump.

Chuck Soley

(124) Chael L. Lutz 11/07/99
 8:30 Dawn is Reconning Pump
 & Equipment
 8:34 I am moving over to Alex & Chael
 8:35 ARRIVE @ MW 45 Present
 ARE Alex Chael Chael is taking
 Draw Down Measurements.
 Alex is taking PARAMETER @
 a HORIZA WATER Quality Probe
 8:54 Final PARAMETERS @ MW 45.
 8:56 PH con Tab DO Tur ORP Vol
 6.75 0.12 20 1.4 16.7 .109 4gals
 Disconnecting H₂O Horiba through
 a Valve
 9:00 Picture 17# Facing NE @ MW 45
 of Alex filling a VOA for indicator
 Parameters
 9:06 Finish Sampling @ MW 45
 Final DTW is 7.5%.
 SAMPLES ARE BEING STORED ON
 ICE.
 9:10 Picture # 18 of Faaf NW
 @ MW 45 of Alex AND Chael
 Pull out the pump.
 9:20 moving to see Dawn & Rudy

Chael L. Lutz

(125) Chael L. Lutz 11/07/99
 9:25 ARRIVED @ MW 15, Rudy
 AND Dawn are Sampling -
 * Put in Role #2, Because Film
 Striped had to pull it out @
 Frame 19.
 9:35 Picture 1 Role 2 Facing West
 @ MW 15 of Dawn Reconning
 the water level & the sending
 unit for the Ground Flow Pump.
 I am looking up MICRO pumping
 Protocol for ACS.
 9:43 moving to MW 50
 9:46 ARRIVED @ MW 50 w/ Rudy & Dawn
 this well is BEING SAMPLED FOR INDICATOR
 PARAMETER. DAWN & RUDY ARE SETTING UP.
 9:50 Rudy is taking a GROUNDWATER MEASUREMENTS
 9:53 Picture #3 Role 2 Facing SW @
 MW 50 of Dawn AND Rudy installing
 the Ground Flow pump
 10:00 29.62 DTW @ MW 50
 10:11 Rudy is checking Draw Down
 No Observe @ Draw Point.
 WATER IS A MERCY BROWN COLOR
 INITIAL AND CLEARING

Chael L. Lutz

(126) Chad & Alex 11/02/89
 10:37 Back Sampling from well to Run
 AFTER GAS for the GONGADER.
 Produce #1 Raker 2 Pump NE @
 mid 50 ft. of Pump. Still
 metals only for indicator
 parameters.

10:58 Final Parameters Capped Pump
 MW1.

PH Core Tub DO TDS ORP WEL
 7.33 C.22 640 C.3 132 1.4 118 29.66

11:03 Pump is Decaying Pump,
 Next Mob to WTB TO Drop
 OFF Pump WATER.

12:10 Mob to 1009 Road to Sample
 the well in the Drive way, -

12:20 Rudy & Dawn Setting up @ MW18

12:45 Rudy & Dawn ARE Trying to
 MEASURE well First measure
 11.7 Next AFTER installing the
 pump 12.2, Pump WAS ACTIVATED
 AND NO WATER WAS OBTAINED
 Pump checks out to be in working
 condition.

13:25 Rudy Call well Dry, MW18
 it is @ 1009 Road it is 15ft well

(127) Chad & Alex 11/02/89
 13:30 WATER LEVEL IS MEASURED @ 1009,
 Relocated well for the pump to be located
 @ 1009 Foot where Screen interval
 @ 1 foot above screen interval
 The wells Dry, therefore cannot
 be Sampled. Sample Piccola Pops
 MAX 3 PPG.

13:52 I am going to talk to Chad Seal

13:45 Rudy & Dawn ARE SETTING UP
 AT 1009 Raker Rd.
 11, 43, 43.15 Sampled by Chad
 & Alex AND 11 WAS DRY.

13:55 Return to WATER TREATMENT
 Bld with Chad & Alex to
 Decay & Dispose of Pump
 water.

14:00 Call Steve to inform him
 of EVENT, well now is & MW11
 went Dry & ASK on Last Progress
 ON Sampling, because there is
 A DISCREPANCY ON Pump Placement.
 He is FAX over info.

(128)

Chad Haley 11/10/99
 14:20 Picture 3 Rotor Facing West
 inside WTB of Chad Pulley
 Fish Blank, Equip & Graph
 14:25 Finished w/ Field Bit By
 Chad Alex.

Alex & Chad ARE moving to
 MW 23 AND MW-46

14:50 ARRIVE @ MW 46 WATER
 LEVEL IS 4.56 ft initially

15:10 Alex & Chad ARE FISHING the tubing
 out of the well.

15:30 Went to check on Dawn & Rudy
 ARE sampling MW 12 ON the
 NE side of site

14:10 I'm returning to the office
 MW 46 was a MISSED

11/10/99 Chad Haley

(129)

Chad Haley 11/10/99
 7:50 ARRIVED on site, weather
 is OVERCAST, mild, light breeze
 7:55 ARRIVED MW 11 with Rudy
 AND PAWN

8:00 Start Sampling MW 11

8:02 Picture #6 Rotor Facing South
 @ MW 11 of Rotor Filling of
 10A Bottle for indicated
 parameters

Water level 10.70 @ MW 11

pt Cond Turb Po Temp TDS ORP GMI DTW
 CR 26 990 1.1 139 047 86 1.4 10.70

WATER IS A Rust Color indicates
 some IRON Oxidation

8:05 Picture #7 Rotor Facing S @ MW 11
 of Rotor Rely extracting the Pump
 10.58 DWS MW 11 Serial

8:08 PAWN IS Reconnecting the pump
 AND EQUIPMENT, Dawn & Rudy
 ARE moving to Lamp Fill.

8:25 Chad & Alex are returning from
 MW 23 in the Supp
 indicated parameters

8:30 The Both temp are dropping after
 Pump was on

(13) Chad Daily 11/10/98
 9:00 ~~XX~~ CALLED STEVE MCKUCKA AHEAD
 of MW9R + MW10C AND 2 other
 well are supposed to be SAMPLED
 FOR Full Scan NOT Just
 Indicator PARAMETERS. —
 STEVE SAID THE WELLS ARE SUPPOSE
 to be SAMPLED for indicator PARAMS
 according to Letter Nov '98.
 The Letter lays out the SAMPLE
 Schedule.

9:37 Start Sampling mw 14
 9:38 Picture #8 Pole 2 Facing West
 @ MW14. OF Alex Filling A/VOL
 FOR INDICATOR PARAMETERS. —
 Final PARAMETERS for mw 14 (all)
 pH Cond Turb DO Temp Sal
 6.82 682 95 140 4.2 17.2 0.0-2.0
 Pecal 11.1-10.5

9:50 Picture #9 Pole 2 Facing West @
 MW14 of Alex & Chad pull out
 the pump.

10:00 * CALLED CHARLES HUTCHINSON @
 DYNACORP to Report NO SAMPLES
 ARE BEING SENT TO DAY OR FROM
 YESTERDAY ON CASE #2756A

Chad Daily

(13) Chad Daily 11/10/98
 10:05 mob to LANDFILL wells
 10:06 MW10 DTW IS 139.2 INCHES w/1
 Pump 11 —
 @ the LAND FILL THERE IS A NEW
 FENCE around the Perimeter —
 10:25 Picture 10 Pole 2 Facing NE @
 MDA of Dam Fill out barrel
 + Securing them to the rollers.
 10:35 Start Sampling @ MDA
 10:36 Picture 11 Pole 2 Facing NE @
 MDA of Dam Filling Fill a
 metals CONTAINER —
 10:40 ARE Pecal & Dam are roping up hose
 the wells in LAND FILL ARE NOT
 Dedicated Tubing wells —
 Pecal IS Reconnecting the pump and
 Equipment —
 pH Cond Turb DO Temp TDS ORP K_{OH} DTW
 7.49 0.14 64 0.1 15.1 0.19 155 2.8 13.92
 10:50 Pecal & Dam are moving to 1033
 Pecal will take a MISSED
 Sample.

Chad Daily

132 *Chad Soley* 11/10/99
 11:05 ARRIVE @ MW-29 with Alex
 AND Chad. Taking water
 Quality parameters.
 DTW 1807 Checking For Indicator
 11:16 Final PARAMETERS @ MW-29 —
 pH COND Turb DO Temp Sal ORP Vol
 6.93 0.12 64 0.9 14.3 0.1 126 40µm
 11:20 Start Sampling MW29 for indicator
 parameters
 Picture #12 Facing west @ MW29
 of Alex Sully A metal container
 for indicator Parameters.
 11:26 Picture #13 Facing west @ MW29
 of Chad + Alex Disconnecting the
 pump Alex finish Sampling
 11:26 Picture #14 Facing west @ MW29
 of Chad Disconnecting the indicator
 wires.

Even one mob. Bpt to
 WATER Treatment Bld to drop
 Paper waste

12:15 Chad + Alex Mob to MGR
 AND Pans + Reel Mob
 To MSX Hand Lift.

Chad Soley

133 *Chad Soley* 11/10/99
 13:15 ARRIVE @ M15 Hand Lift
 DTW 10088 Initial.
 13:35 Start pumping well m15
 13:44 Start Sampling.
 Final Parameter Measure —
 pH COND Turb DO Temp Sal ORP Vol
 6.81 0.33 320 0.6 14.2 2.1 90 2.5
 WATER CLAR 10.30 @ M15
 13:50 Picture #15 Facing West @ M15
 of Reel and Pans Pull the
 pump out. (Role 2)
 13:55 Picture #16 Facing East @ M15
 of Reel Disconnecting the pump.
 Role #2.
 14:00 Chad + Alex are done Sampling MGR
 AS I ARRIVED. Mob to East
 of Site in the woods
 14:15 Picture #17 Facing S in the WTB
 of Chad Disconnecting the pump before
 pulling a field Blank.
 14:43 Picture #18 Role 2 Facing West
 inside WTB of Alex + Chad
 Pulling field Blank Alex filling VOA.
Chad Soley

(134)

Chad & Leah 11/10/97

15:00

Leah & Dawn return to work
to drop off Purple water
Finish MW 6

15:10

Dawn & Leah are going to MW 15
Picture #11 (Pole 2) Fixing South east
@ MW-40 of Chad & Alex setting
up the pump air to MW 40.
DTW 8.98 @ MW 40

15:40

START Sampling @ MW 40

Final Parameters @ MW 40

pH	Cond	Turb	DO	Temp	Sal	ORC	Vol
6.47	420	82	2.11	18.7	0.02	15.2	38

15:43

Picture #20 Pump S @ MW 40
of Alex. All Vol for
Indicator Parameters.

15:53

Move to MW-7

Alex & Chad @ MW-7

In move to MW-15 to check
on Dunny Pump

16:01

Dawn & Leah are finished up
@ MW 15 AND Decoding
pump.

16:10

Back @ MW 7 with Chad
Alex.

Chad & Leah

(135)

Chad & Leah 11/10/97

16:20

Alex is stopping to Sample @ MW 7
for Indicator PARAMETERS.

Final Water Quality PARAMETERS

pH	Cond	Turb	DO	Temp	Sal	ORC	Vol
7.24	669	176	0.56	13.7	0.03	16.3	38

16:30 Alex Decoding the pump

16:40

Move to the WATER TREATMENT
Bld to Drop off PURPLE WATER

17:35

Leave for day

Chad & Leah

(136) Chad Lacey 11/11/79
 7:55 ARRIVED ON SITE WEATHER
 UPPER 40s Light Breeze.
 8:00 Dawn AND Rudy ARE Pulling Field
 Blank
 LONNY BONING is taking Alex
 Ellwood's place
 8:30 Picture #1 Role 3 FACING East
 @ MW37 of LONNY & Chad noted
 of the pump down well.
 8:35 DTW @ MW37 8.82 initial
 8:53 Sample time @ MW37 - final
 Parameters:
 pH CONC Turb DO Temp Sal ORP Vol
 6.92 655 110 1.82 17.2 0.63 3 2.0
 DTW 8.82 final
 8:59 Finish sampling @ MW-37
 mob to see Rudy & Dawn
 9:11 Rudy & Dawn ARE finishing MW35
Picture #2 Role 3 FACING EAST
 of Dawn Rudy pulling Pump out of
 MW 33
 9:15 Rudy is decommissioning the pump.
 9:20 Picture #3 Role 3 facing NW
 Nest wells MW33 & 30 of Rudy
 decommissioning pump.
Chad Lacey

(137) Chad Lacey 11/11/79
 9:25 Dawn & Rudy ARE INSTALLING
 pump Down MW30, NO ODER
 Detected,
 DTW @ MW-30 15.57 initial.
 9:50 Start sampling @ MW-30 final
 parameters.
 pH CONC Turb DO Temp TDS ORP Sal
 7.43 98 310 0.7 12.1 0.63 -151 2.5
 Last DTW = 15.58
 9:57 Rudy taking DTW 15.58 final
 10:00 Rudy is decommissioning Pump to
 Sample MW-51
 Moving to watch Chad Lacey
 10:01 ARRIVED MW-24, pulling in the pump -
 10:10 Chad is taking initial DTW 16.50
 10:35 Start sampling @ MW-24 final
 PARAMETERS.
 pH CONC Turb DO Temp Sal ORP Vol
 7.00 .113 110 1.73 14.6 0.05 -88 3.4
 Final DTW 16.51
 10:36 Picture #4 Role 3 Facing SW
 @ MW-24 of Chad pulling in
 VOA for in situ parameters
Chad Lacey

(138)

Chad Self 11/1/97

10:47

10:55

Chad & Larry move to MW 52+53
Rudy & Dawn ARE SETTING up
ON MW-52. there is a noticeable
ORDER.

11:10

Called Steve Mikucka to report
on progress.

11:35

Rudy & Larry Return to WTP
To Drop off pump WATER

11:40

Chad & Larry are Supplying MW 52
Picture #5 Role 3 Facing N
of Larry's distance VOA for
inclined developed

Final Parameters ARE

PH Coal Turb Po Turp Sol GR

7.03 0.146 110 0.69 149 0.07-118

gallon Zone 82 DTW 13.98

Strong ORDER of ether

11:45

Picture #6 Role 3 Facing NW @ MW 52
of Larry's Decommissioning the pump.

11:55

Picture #6 Role 3 Facing NW
MW-53 of Larry & Chad
installing the pump.

12:00

DTW 14.14 - 14.14

12:25

Picture #7 Role 3 Facing NE @ MW 53
of Chad called a VOA Supply @ VOA

Chad Self

(139)

Chad Self 11/1/97

12:25

Final PARAMETERS @ MW 53

PH Coal Turb Po Turp Sol ORP Vol

6.84 0.333 230

649 0.375 110 1.04 125 0.16 -75 414 gal

DTW 14.20

12:30

Chad & Larry ARE Decommissioning Pump
Equipment

13:10

Return to WTP To drop pump
water.

13:25

Dawn & Rudy ARE SETTING up
ON MW 31 & 32, RACING
tubbing problems, on length.

14:20

Dawn & Rudy are putting in
New tubbing @ MW 32
the situation is uneasy.

14:30

Picture #8 Role 3 Facing SW @
MW 32 of Rudy & Dawn
Putting the pump & New tubbing
Down well.

DTW @ MW 32 25.03 initial

15:00

Picture #9 Role 3 Facing East
@ MW 32 of Rudy (take me back)
parameter Phillip a VOA

PH 'Gr Turb Po Turp TDS ORP Sol
7.44 79 200 0.9 11.8 151-14 40

Chad Self

(40)

Chad L. Lally 11/12/99

- 15:05 DTW @ MAS-25.1
 15:15 Dawn is DECUMING Pump.
 15:20 Picture #10 Role 3 Pump N
 of Pan DECUMING
 15:25 BETTING up on MW-31
 DTW 22.82 initial
 Pumpwell MW-31
 16:20 Picture #11 Role 3 @ MW-31
 Budget-Dinner Staples indicator parameter
 Free Search
 Final Parameter @ MW-31
 pH Conc Turb DO Temp TDS ORP Gd
 751 69 47 1.3 11.5 0.44 HD 5.8
 DTW = 23.85 final
 This well MW-31 is A MS/MSD.
 16:35 Dawn & Rudy are pds to WTB
 to Dump purge water.
 I'm going to check on Chad &
 Larry @ MW 48.
 16:45 Finishing MW 48 on arrival with
 Chad and Larry.
 Return to WTB To Dump Purge
 17:30 Leaving Site

(41)

Chad L. Lally 11/12/99

- 7:30 Arrival on site, weather incl
 40s temp NO Breezy Sunny
 7:40 Arrive @ MW-49 with Rudy
 AND Chad. There will be only
 ONE crew today.
 7:47 DTW 9.47 @ MW-49
 DTW 9:30 @ MW 49 initial
 DTW 9:47 @ MW 49 final
 pit Conc Turb DO Temp SAT ORP Vol
 6:70 6.7 92 0.7 16.3 0.03 -102 50
 final Parameter @ MW-49.
 This well is a Duplicate, sampled
 for indicator parameters.
 8:02 Picture #12 Facing N @ MW 49
 of Ruck take DTW @ MW 49.
 8:07 Picture #13 Role 3 Facing N @ MW 49
 of Rudy & Chad pulling the pump out.
 8:30 Rudy & Chad are getting
 access to the MS pump
 in order to sample it well.
 8:45 Chad & Rudy ARE SETTING up on
 ATM 40
 DTW = 18.46 @ ATM 40

(42) Chad Lally 11/12/79

9:00 Picture #14 Role 3 Faces East
@ ATM 40 of Chad Lally

DTW
9:15 Picture #15 Faces NW @ ATM 40
of Reel Rolling a VOA

Final Parameters @ ATM 40
PH 7.25 97.0 130 1.8 14.0 0.4 11.8 1.5

25.3-DTW Local

9:25 Picture #16 Faces NW @ ATM 40
of Reel + Chad pulling out
the pump.

9:35 Mob out of Panel (ACSI) Back to
WTB.

10:10 Picture #16 Faces NE @ WTB
of Chad Reel (Percease)

#17 Faces NE @ WTB

Reel Rolling @ VOA.

10:50 Pictures #17 Faces NE at
Chad Rollout Control Sides

11:20 Fill and Oxygen Shipping

12:35 Fresh Park probably
to the office

11/12/79

NOVEMBER 1999 GROUNDWATER SAMPLING

WELL PARAMETERS DATE SAMPLED/PROBLEMS/PLEASE INITIAL WHEN COMPLETE
UPPER AQUIFER

NORTH		
MW-11	Ind	11/10/99 DD/KS
MW-12	Ind	11/9/99 RS/DD
MW-37	Ind	11/11/99 CS/LB .
MW-38	Ind	11/8/99 AE/CS
MW-39	Ind	11/8/99 AE/CS
MW-40	Ind	11/10/99 AE/CS
MW-48	Ind	11/11/99 LB/CS .
MW-49	Ind	11/12/99 CS/RS .

WEST		
M-1S	Ind	11/10/99 DD/KS
M-4S	Ind	11/10/99 DD/KS
MW13	Ind	11/11 CS/LB .
MW-14	Ind	11/10/99 CS/AE
MW-46	Ind	11/9/99 CS/AE

SOUTH		
MW-06	Ind	11/10/99 DD/KS
MW-15	Ind	11/9/99 RS/DD
MW-18	Ind	11/10/99 DRY DD/RS 11/9/99
MW-19	Ind	11/10/99 DD/KS
MW-41	Ind	DRY AE/CS 11/9/99
MW-42	Ind	11/9/99 AE/CS
MW-43	Ind	11/9/99 AE/CS
MW-44	Ind	11/9/99 AE/CS
MW-45	Ind	11/9/99 AE/CS
MW-47	Ind	11/9/99 DD/RS

MISC:		
FW-D	Cyanide	11/10/99 DD/KS

NOVEMBER 1999 GROUNDWATER SAMPLING

WELL PARAMETERS DATE SAMPLED/PROBLEMS/PLEASE INITIAL WHEN COMPLETE
LOWER AQUIFER

M-4D	Ind	11/10/99 DD/RS
ATMW-4D	Ind	11/12/99 CS/RS :
MW-07	Ind	11/10/99 CS/AE :
MW-08	Ind	11/8/99 RS/DD
MW-09R	Ind	11/10/99 CS/AE
MW-10C	Ind	11/11/99 DD/RS .
MW-23	Ind	11/10/99 CS/AE
MW-24	Ind	11/11 CS/LB .
MW-28	Ind	11/9/99 RS/DD
MW-29	Ind	11/10/99 CS/AE
MW-30	Ind	11/11/99 DD/RS :
MW-31	Ind	11/11/99 DD/RS :
MW-32	Ind	11/11/99 DD/RS :
MW-33	Ind	11/11/99 DD/RS :
MW-34	Ind	11/10/99 CS/AE
MW-50	Ind	11/9/99 RS/DD
MW-51	Ind	11/11/99 RS/DD :
MW-52	Ind	11/11 CS/LB :
MW-53	Ind	11/11 CS/LB :
MW-54R	Ind	11/8/99 RS/DD
MW-55	Ind	11/8/99 RS/DD



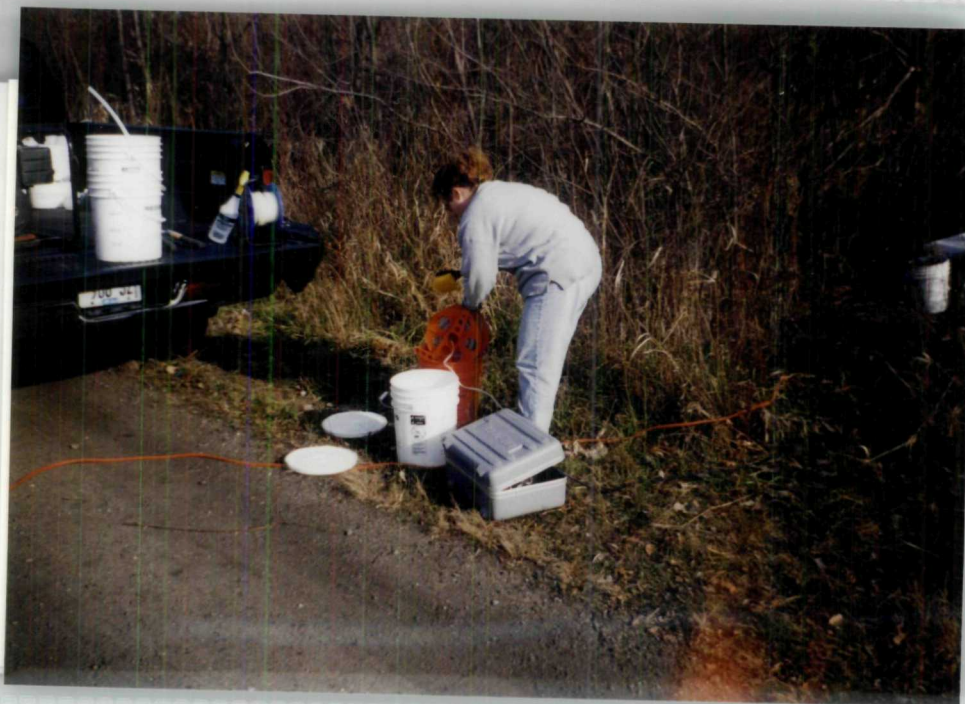
Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:15
 Date: 11-09-99 Time: 08:27
 Photographer: Chad Gailey
 Description: Photo facing north at MW47 of
 Dawn Dougher filling a poly for
 metals analysis.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:16
 Date: 11-09-99 Time: 08:30
 Photographer: Chad Gailey
 Description: Photo facing northwest at MW47
 of Dawn Dougher and Rudy Stein
 pull out the sampling pump.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:17
 Date: 11-09-99 Time: 09:00
 Photographer: Chad Gailey
 Description: Photo facing northeast at MW45
 of Alex Ellwood filling a VOA
 for indicator parameters.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:1
 Date: 11-09-99 Time: 09:35
 Photographer: Chad Gailey
 Description: Photo facing west at MW15 of
 Dawn Dougher deconning the
 sampling equipment.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:3
 Date: 11-09-99 Time: 09:53
 Photographer: Chad Gailey
 Description: Photo facing southwest at MW50
 of Dawn Dougher and Rudy Stein
 installing the sampling pump.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:4
 Date: 11-09-99 Time: 10:37
 Photographer: Chad Gailey
 Description: Photo facing northeast at MW50
 of Dawn Dougher fill a metals
 poly for indicator parameters.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:5
 Date: 11-09-99 Time: 14:20
 Photographer: Chad Gailey
 Description: Photo facing west inside the water treatment Bld. of Chad Smith pulling a equipment field blank.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:6
 Date: 11-10-99 Time: 08:02
 Photographer: Chad Gailey
 Description: Photo facing south at MW11 of Rudy Stein filling a VOA bottle for indicator parameters.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:7
 Date: 11-10-99 Time: 08:05
 Photographer: Chad Gailey
 Description: Photo facing south at MW11 of
 Dawn Dougher and Rudy Stein
 extraction the sampling pump.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:8
 Date: 11-10-99 Time: 09:38
 Photographer: Chad Gailey
 Description: Photo facing west at MW14 of
 Alex Ellwood fill a VOA for
 indicator parameters.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 2 Photo #:9

Date: 11-10-99 Time: 09:50

Photographer: Chad Gailey

Description: Photo facing west at MW14 of
Alex Ellwood and Chad Smith
pulling out the sampling pump.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 2 Photo #:10

Date: 11-10-99 Time: 10:45

Photographer: Chad Gailey

Description: Photo facing northeast at MD4 of
Dawn Dougher filling out and
attaching labels.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 2 Photo #:11

Date: 11-10-99 Time: 10:36

Photographer: Chad Gailey

Description: Photo facing northeast at MD4 of Dawn Dougher and Rudy Stein filling a metals container for indicator parameters.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 2 Photo #:12

Date: 11-10-99 Time: 11:22

Photographer: Chad Gailey

Description: Photo facing west at MW29 of Alex Ellwood filling a metals poly for indicator parameters.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 2 Photo #:13

Date: 11-10-99 Time: 11:26

Photographer: Chad Gailey

Description: Photo facing west at MW29 of
Chad Smith and Alex Ellwood
disconnection the pump after
sampling.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 2 Photo #:14

Date: 11-10-99 Time: 11:26

Photographer: Chad Gailey

Description: Photo facing west at MW29 of
Chad Deconning the pump
controller cable.



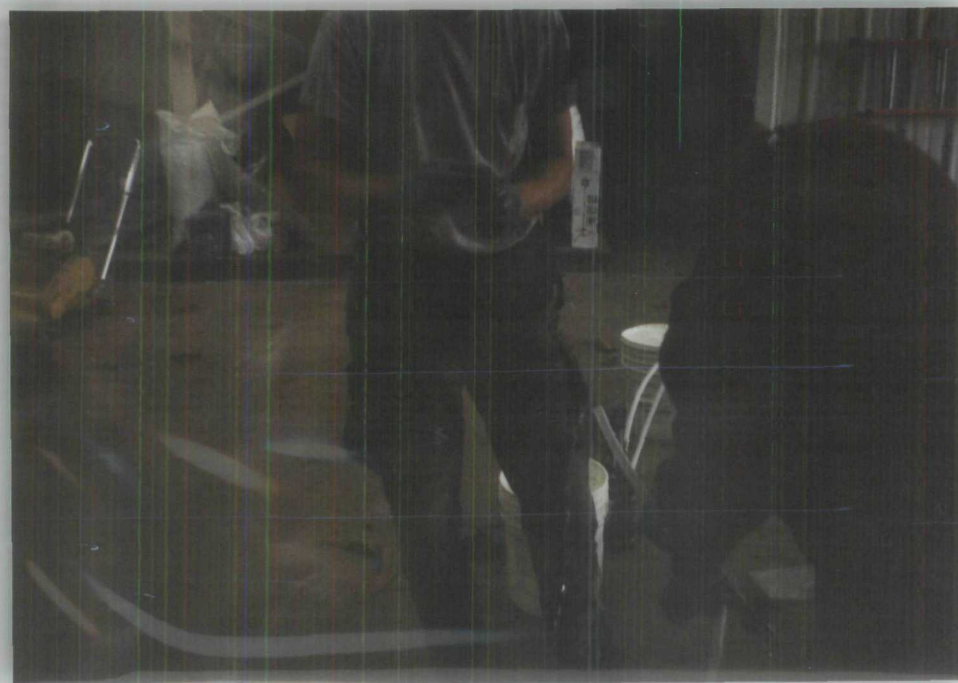
Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:15
 Date: 11-10-99 Time: 13:50
 Photographer: Chad Gailey
 Description: Photo facing west at M1S of
 Rudy Stein and Dawn Dougher
 pulling out the pump after
 sampling..



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:16
 Date: 11-10-99 Time: 13:55
 Photographer: Chad Gailey
 Description: Photo facing east at M1S of Rudy
 Stein deconning the pump.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:17
 Date: 11-10-99 Time: 14:15
 Photographer: Chad Gailey
 Description: Photo facing south at the water treatment Bld. of Chad Smith deconning the pump before pulling a field blank.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 2 Photo #:18
 Date: 11-10-99 Time: 14:43
 Photographer: Chad Gailey
 Description: Photo facing west inside water treatment Bld. of Alex Ellwood and Chad Smith pulling a field Blank.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 2 Photo #:19

Date: 11-10-99 Time: 15:10

Photographer: Chad Gailey

Description: Photo facing southeast at MW40 of Chad Smith and Alex Ellwood setting up the pump.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 2 Photo #:20

Date: 11-10-99 Time: 15:43

Photographer: Chad Gailey

Description: Photo facing south at MW40 of Alex Ellwood filling a VOA for indicator parameters.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:1

Date: 11-11-99 Time: 08:30

Photographer: Chad Gailey

Description: Photo facing east at MW37 of
Lonny Boning and Chad Smith
installing the pump down well.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:2

Date: 11-11-99 Time: 09:11

Photographer: Chad Gailey

Description: Photo facing east of Dawn
Dougher and Rudy Stein pulling
the sampling pump out of the
MW33.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:3
 Date: 11-11-99 Time: 09:20
 Photographer: Chad Gailey
 Description: Photo facing north at well nest
 MW33 and MW30 of Rudy Stein
 deconning the pump and
 equipment.

Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:4
 Date: 11-11-99 Time: 10:36
 Photographer: Chad Gailey
 Description: Photo facing southwest at MW24
 of Chad Smith filling a VOA for
 indicator parameter.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:5

Date: 11-11-99 Time: 11:40

Photographer: Chad Gailey

Description: Photo facing north at MW52 of
Lonny Boning filling a VOA for
indicator parameters.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:6

Date: 11-11-99 Time: 11:45

Photographer: Chad Gailey

Description: Photo facing north at MW52 of
Lonney Boning deconning the
pump and equipment.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:7

Date: 11-11-99 Time: 12:25

Photographer: Chad Gailey

Description: Photo facing northeast at MW53
of Chad Smith collecting a VOC
sample for indicator parameters.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:8

Date: 11-11-99 Time: 14:30

Photographer: Chad Gailey

Description: Photo facing southwest at MW32
of Rudy Stein and Dawn Dougher
installing the pump and new
tubing down well.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:9

Date: 11-11-99 Time: 15:00

Photographer: Chad Gailey

Description: Photo facing east at MW32 of
Rudy Stein filling a VOA for
indicator parameters.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:10

Date: 11-11-99 Time: 15:20

Photographer: Chad Gailey

Description: Photo facing north at MW32 of
Dawn Dougher deconning
sampling equipment.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:11
 Date: 11-11-99 Time: 16:20
 Photographer: Chad Gailey
 Description: Photo facing south at MW31 of
 Rudy Stein and Dawn Dougher
 filling sample bottles for indicator
 parameters.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:12
 Date: 11-12-99 Time: 08:02
 Photographer: Chad Gailey
 Description: Photo facing north at MW49 of
 Rudy Stein taking depth to water
 measurement.



Site: American Chemical Services, Inc.

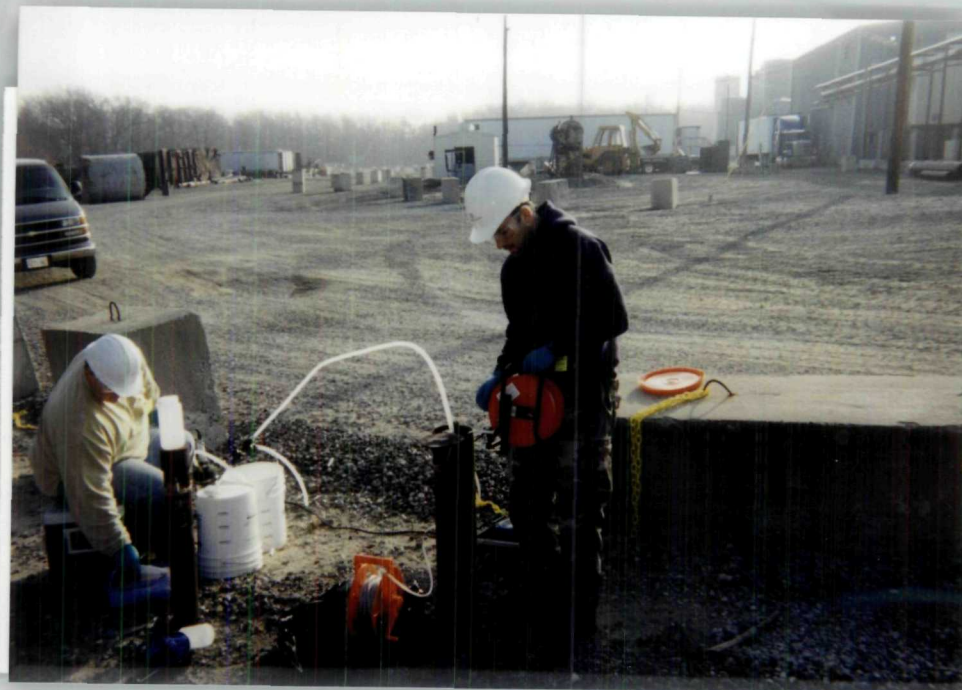
Proj. #: 46517/46518

Roll: 3 Photo #:13

Date: 11-12-99 Time: 08:07

Photographer: Chad Gailey

Description: Photo facing north at MW49 of Rudy Stein and Chad Smith pulling the pump out after sampling.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:14

Date: 11-12-99 Time: 09:00

Photographer: Chad Gailey

Description: Photo facing east at ATM4D of Chad Smith taking initial depth to water measurement.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:15
 Date: 11-12-99 Time: 09:15
 Photographer: Chad Gailey
 Description: Photo facing northwest at
 ATM4D of Rudy Stein filling a
 VOA for indicator parameters.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 3 Photo #:16
 Date: 11-12-99 Time: 09:25
 Photographer: Chad Gailey
 Description: Photo facing northwest at
 ATM4D of Rudy Stein and Chad
 Smith pulling out the pump after
 sampling.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 3 Photo #:17

Date: 11-12-99 Time: 10:10

Photographer: Chad Gailey

Description: Photo facing northeast at the
water treatment Bld. of Chad
Smith filling out a custody seal.

ORC SAMPLING PICTURES

October 13 and November 4, 1999



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:4
 Date: 10-13-99 Time: 08:07
 Photographer: Chad Gailey
 Description: Photo facing north at water
 treatment Bld. of Rudy Stein and
 Chad Smith pulling a field Blank.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 5
 Date: 10-13-99 Time: 08:30
 Photographer: Chad Gailey
 Description: Photo facing north at PZ7 of
 Rudy Stein taking initial
 measurement for draw down.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 6
 Date: 10-13-99 Time: 09:01
 Photographer: Chad Gailey
 Description: Photo facing north at PZ7 of
 Rudy Stein Filling a VOA for
 ORC sampling.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 7
 Date: 10-13-99 Time: 09:20
 Photographer: Chad Gailey
 Description: Photo facing northwest at PZ8 of
 Rudy Stein taking initial
 measurement for draw down.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 8
 Date: 10-13-99 Time: 09:47
 Photographer: Chad Gailey
 Description: Photo facing east at PZ8 of Rudy
 filling a VOA bottle for ORC
 sampling



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 9
 Date: 10-13-99 Time: 10:30
 Photographer: Chad Gailey
 Description: Photo facing southeast at PZ5 of
 Rudy Stein filling a VOA bottle
 for ORC sampling.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:10
 Date: 10-13-99 Time: 10:45
 Photographer: Chad Gailey
 Description: Photo facing north at PZ6 of
 Rudy Stein taking initial
 groundwater elevation for draw
 down.

Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 11
 Date: 10-13-99 Time: 11:20
 Photographer: Chad Gailey
 Description: Photo facing north at PZ6, of
 Rudy Stein fill a VOA bottle for
 ORC sampling.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 12
 Date: 10-13-99 Time: 13:45
 Photographer: Chad Gailey
 Description: Photo facing north at PZ1 of
 Rudy Stein filling a VOA for
 ORC sampling.



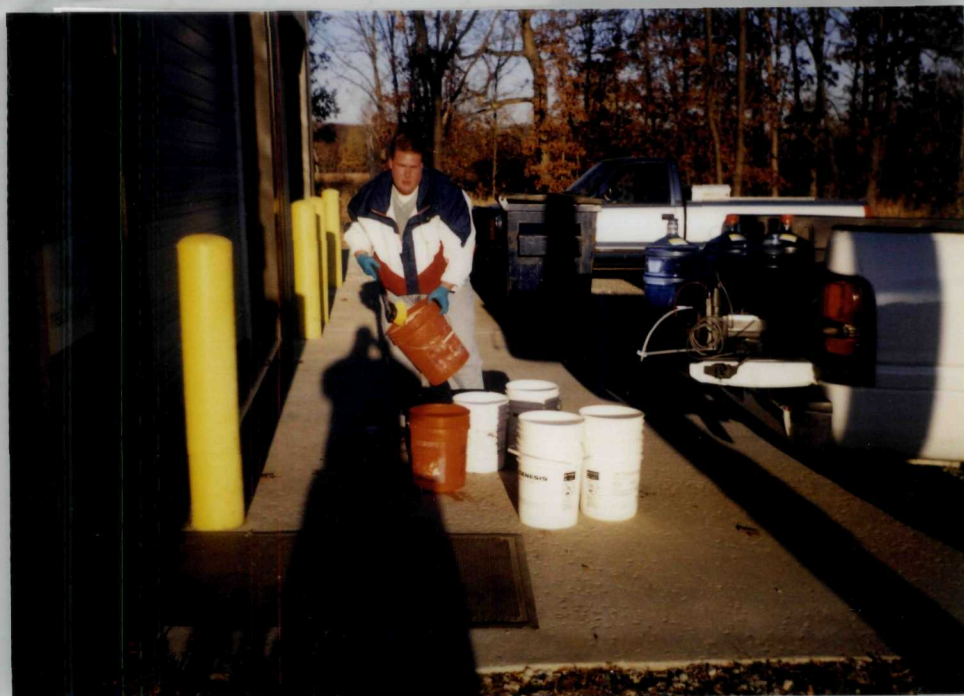
Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 13
 Date: 10-13-99 Time: 14:12
 Photographer: Chad Gailey
 Description: Photo facing east at PZ3 of Chad
 Smith disconnecting the Horiba
 water quality meter.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:14
 Date: 10-13-99 Time: 15:37
 Photographer: Chad Gailey
 Description: Photo facing east at PZ2 of Rudy Stein filling a VOA for ORC sampling.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:15
 Date: 10-13-99 Time: 16:30
 Photographer: Chad Gailey
 Description: Photo facing southwest of Chad Smith and Rudy Stein packing ORC samples in coolers.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 7
 Date: 11-04-99 Time: 07:45
 Photographer: Chad Gailey
 Description: Photo facing west at the water treatment Bld. of Rudy Stein deconning equipment for ORC sampling.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #: 8
 Date: 11-04-99 Time: 08:45
 Photographer: Chad Gailey
 Description: Photo facing north of Rudy Stein filling a VOA at PZ7 for ORC sampling.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #:9

Date: 11-04-99 Time: 09:30

Photographer: Chad Gailey

Description: Photo facing north at PZ6 of Rudy filling a Voa for ORC sampling.

Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #:10

Date: 11-04-99 Time: 10:05

Photographer: Chad Gailey

Description: Photo facing east at PZ8 of rudy filling a VOA for ORC sampling.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:11
 Date: 11-04-99 Time: 10:20
 Photographer: Chad Gailey
 Description: Photo facing south at PZ5 of
 Rudy Stein checking draw down.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:12
 Date: 11-04-99 Time: 12:15
 Photographer: Chad Gailey
 Description: Photo facing north at PZ1 of
 Rudy Stein pulling field blank.



Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:13
 Date: 11-04-99 Time: 13:00
 Photographer: Chad Gailey
 Description: Photo facing north at PZ1 of
 Rudy Stein fill a VOA for ORC
 sampling.

Site: American Chemical Services, Inc.
 Proj. #: 46517/46518
 Roll: 1 Photo #:14
 Date: 11-04-99 Time: 13:32
 Photographer: Chad Gailey
 Description: Photo facing east at PZ3 of Rudy
 filling a VOA for ORC sampling.